

IN THE SPECIFICATION:

Page 2, line 10, change "timer" to --time--

Page 3, line 14, after "all" insert add --2-path or--

Page 6, line 17, after "multiple signals" insert --,--

Page 6, line 18, change "of" to --imposed by--

Page 12, line 19, after "distortion" insert --;--

Page 13, line 5, after "separated" insert --and corrected--

Page 16, line 16, after "co-channel" insert --signal--

Page 16, line 17, after "interference" insert --,--

Page 17, line 5, after "and" insert --adjacent--

Page 19, line 4, change "FIG 25" to --FIG. 24--

Page 26, line 10, change "linearly" to --linear--

Page 26, line 12, delete "symbols used"

Page 31, line 15, change "high-degree" to --high degree--

Page 33, delete lines 4 through 17 and insert the following:

Or, if only adjacent channel interference rejection is desired, such that functionality is limited to the cancellation of adjacent channel interference, instead of joint cancellation of adjacent- and co-channel interference, signal separation, and distortion correction, then the two-input two-path LCL-FRESH filtering structures 30a, 30b, which are shown in FIG. 15 (2 I-LCL-FRESH-U) and FIG. 16 (2 I-LCL-FRESH-L), respectively, can be used to remove interference from either the upper adjacent channel by using input $x_+(t)$ and frequency shift $f_c - f_b/2$, or the lower adjacent channel by using input $x_-(t)$ and frequency shift $-f_c + f_b/2$, respectively, where f_c is the separation between adjacent carriers. As an alternative, interference from both upper and lower adjacent channels can be simultaneously removed using the 3-input 3-path LCL-FRESH filter 30c shown in FIG. 17 (3 I-LCL-FRESH-UL).

Page 35, delete lines 4 through the end of the page, and insert the following:

--Table 1

Conjugate Cycle Frequencies, Input/Output Sampling Rates†	Filtering Structures*
$\pm f_b/2$, O/O	FIG. 4, LCL-FRESH (FIG. 5, LCL-PTV)
$\pm f_b/2$, O/B	FIG. 7, LCL-FRESH-FSE-2 (FIG. 6, 8, 9, 10, 11)
$\pm f_b/2$, B/B	FIG. 12, LCL (FIG. 13)
$2f_c - f_b/2$, O/O	FIG. 15, 2I-LCL-FRESH-U
$-2f_c + f_b/2$, O/O	FIG. 16, 2I-LCL-FRESH-L
$2f_c - f_b/2$, $-2f_c + f_b/2$, O/O	FIG. 17, 3I-LCL-FRESH-UL
$\pm f_b/2$, $-2f_c + f_b/2$, $2f_c - f_b/2$, O/O	FIG. 14, 5-path LCL-FRESH

† f_c = separation between adjacent carriers, O = oversampled, and B = bit rate sampled.

* The filter structures listed in parenthesis are mathematically equivalent to the basic structure not in parenthesis, and the former can be derived from the latter by standard block diagram manipulations.

Page 36, delete lines 1-3.

Page 40, line 1, delete "one simply follows"

Page 40, line 2, change "with" to --is simply followed by--

Page 44, line 10, after "than the" insert --length of the--

Page 45, line 2, change " T_l " to -- T_1 --

Page 47, line 4, change " T_l " to -- T_1 --

Page 48, line 7, before "the" insert --to zero--

Page 49, line 16 - change " u_{k-1} " to -- $u_{k-1}(t)$ --

Page 51, line 10, after "sequence" insert --of--

Page 51, line 10, change "vector" to --vectors--

IN THE DRAWINGS:

Please substitute the enclosed drawing sheet containing FIG. 36 for FIG. 36 as originally filed.

REMARKS

The foregoing Preliminary Amendment is being submitted in order to correct typographical errors contained in the application as originally submitted. In addition, the language on page 33, lines 4-17 have been rewritten to be more concise and consistent with the remainder of the specification and drawings. Table 1 has also been revised for clarity by moving portions of the surrounding text into footnotes to Table 1.

No new matter has been added, and entry of the Preliminary Amendment is respectfully requested.